2 January 1964

MEMORANDUM FOR THE RECORD

SUBJECT: Trip Report [redacted] Change Detector 25X1A 25X1A

1. On 26 November 1963 and again on 17 December 1963 [redacted] 25X1A 25X1A 25X1A for the purpose of reviewing and discussing the progress on the development of the Change Detector.

2. In the meeting of 26 November at which [redacted] also of 25X1A this office was present, the limitations in film transport speed, 4-seconds per frame, for the frame by frame, and .15 inches per second for slew mode, were discussed. These speeds are related to the frame by frame operation of the 70mm perforated film which makes use of a "Geneva" movement. It now appears that perforated film will not be used with this device and modification to handle non-perforated film and to increase the speed of the film transport should be considered. It was also observed at this meeting that no provision was made for the simultaneous rotation of both film images; it is believed this can best be accomplished by rotation of the raster generation yoke. Another matter observed in the 26 November meeting was that the angle of the viewing screen (about 45°) to the walls of the room, in which the device was located, resulted in some reflection to the operator when the room was lighted.

3. The [redacted] 25X1A personnel were asked to think on these things and another meeting was set up for 17 December 1963, this to coincide with the 25X1A scheduled visit of [redacted] and others from Langley to the [redacted] 25X1A The project appeared to be on schedule; except, for some delay (about 15 25X1A day ) in the fabrication of some optical-mechanical sub-components. Funds expended to this date were [redacted] This left only [redacted] to complete, 25X1A which did not seem to be adequate for the amount of work remaining. However, I was assured that most of the remaining work was in the low wage-hour category and that no additional funds would be required, unless we changed the overall requirements.

4. In the meeting of 17 December 1963, [redacted] representatives pre- 25X1A sented a brief of the manner in which they propose to provide: Transport of non-perforated film; Increase of transport speed to (from 0.02" per

second to 0.020" per second and from 2.5" per second to 24" per second); Frame counter, adjustable to various frame lengths; and a raster orientation
25X1A control. The extimated additional cost for these modifications is [redacted] one must bear in mind that there are two film positioning and film transport heads involved in the proposed changes. The estimated time required to complete the modification is four months after approval to proceed is obtained.

5. I examined all of the optical-mechanical components which were layed out on a bench preparatory to assembly on the main mounting. The machine work and provisions for movement of the various parts is very meticulously accomplished. I also had prepared and took with me a density difference test film which had a density difference of only 0.10 density units, this was inserted in the Change Detector and the change, having this limited density difference, was readily visible.

6. It was agreed that I would discuss the proposed changes with my
25X1A superiors and let [redacted] know by 20 December 1963 if we would be interested in receiving detailed proposals for these modifications. (This
25X1A has been done. [redacted] was advised on 18 December that we want the proposals). It was further agreed that I would obtain the frame dimensions
25X1A and position of edge numbering or other frame position markers for all
25X1A films we expect to use on the device and forward this information to [redacted]
25X1A for their information. (I have orally requested this information
25X1A from [redacted] and he is compiling it). The next meeting is scheduled for
25X1A 23 and 24 January 1964 at [redacted] it is hoped to have one or more interpreters along on the next visit.

25X1A

7. On 17 December the party from Langley, including [redacted]
25X1A [redacted] from NPIC, were given a demonstration of the Change Detector.
25X1A [redacted] has expressed much interest, to me, and wants to be informed when equipment is received.

[redacted]

25X1A

Development Branch, P&DS

SECRET

D R A F T

23 December 1963

MEMORANDUM FOR THE RECORD:

25X1A

SUBJECT : Trip Report [redacted] Change Detector

25X1A

25X1A 1. On 26 November 1963 and again on 17 December 1963 [redacted]

25X1A

25X1A [redacted] for the purpose of reviewing and discussing the progress on the development of the Change Detector.

25X1A 2. In the meeting of 26 November at which [redacted] also of this office was present, the limitations in film transport speed, 4-seconds per frame, for the frame by frame, and .15 inches per second for slew mode, were discussed. These speeds are related to the frame by frame operation of the 70mm perforated film which makes use of a "Geneva" movement. It now appears that perforated film will not be used with this device and modification to handle non-perforated film and to increase the speed of the film transport should be considered. It was also observed at this meeting that no provision was made for the simultaneous rotation of both film images; it is believed this can best be accomplished by rotation of the raster generation yoke. Another matter observed in the 26 November meeting was that the angle of the

viewing screen (about 45°) to the walls of the room, in which the device was located, resulted in some reflection to the operator when the room was lighted.

25X1A 3. The [redacted] personnel were asked to think on these things and another meeting was set up for 17 December 1963, this to coincide

25X1A with the scheduled visit of [redacted] and others from Langley to the [redacted]

25X1A [redacted] The Project appeared to be on schedule; except, for some

25X1A delay (about 15 days) in the fabrication of some optical-mechanical

25X1A sub-components. Funds expended to this date were [redacted] This left

25X1A only [redacted] to complete, which did not seem to be much for the amount of work remaining. However, I was assured that most of the remaining work was in the low wage-hour category and that no additional funds would be required, unless we changed the overall requirements.

25X1A 4. In the meeting of 17 December 1963, [redacted] representatives presented a brief of the manner in which they propose to provide: Transport of non-perforated film; Increase of transport speed to (from 0.02" per second to 0.20" per second and from 2.5" per second to 24" per second); Frame counter, adjustable to various frame lengths; and a raster orientation control. The estimated additional cost for these

25X1A modifications is [redacted] one must bear in mind that there are two film positioning and film transport heads involved in the proposed changes. The estimated time required to complete the modification is four months after approval to procede is obtained.

5. I examined all of the optical-mechanical components which were layed out on a bench preparatory to assembly on the main mounting. The machine work and provisions for movement of the various parts is very meticulously accomplished. I also had prepared and took with me a density difference test film which had a density difference of only 0.10 density units, this was inserted in the Change Detector and the change, having this limited density difference, was readily visible.

6. It was agreed that I would discuss the proposed changes with my superiors and let [redacted] know by 20 December 1963 if we would be interested in receiving detailed proposals for these modifications. (This has been done. [redacted] was advised on 18 December that we want the proposals). It was further agreed that I would obtain the frame dimensions and position of edge numbering or other frame position markers for all films we expect to use on the device and forward this information to [redacted] for their information. (I have orally requested this information from [redacted] and he is compiling it). The next meeting is scheduled for 23 and 24 January 1964 at [redacted] it is hoped to have one or more interpreters along on the next visit.

7. On 17 December the party from Langley, including [redacted] from NPIC, were given a demonstration of the Change Detector. [redacted] has expressed much interest, to me, and wants to be informed when equipment is received.

[redacted]